

## ABSTRACT

### ARRAYS

- 5    Methods are provided for producing a molecular array comprising a plurality of molecules immobilised to a solid substrate at a density which allows individual immobilised molecules to be individually resolved, wherein each individual molecule in the array is spatially addressable and the identity of each molecule is known or determined prior to immobilisation. The use of spatially addressable lowdensity molecular arrays in single  
10   molecule detection and analysis techniques is also provided. Novel assays and methods are also provided.

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